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RAW SEQUENCE LISTING

DATE: 09/10/2001 TIME: 11:21:17

PATENT APPLICATION: US/09/825,147

Input Set : A:\LEX-0160-USA SEQLIST.txt Output Set: N:\CRF3\09102001\1825147.raw

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<110> APPLICANT: Hu, Yi
                                                                 ENTERED
             Kieke, James Alvin
      5
             Turner, C. Alexander Jr.
      6
             Nehls, Michael C.
     7
      8
             Friedrich, Glenn
      9
             Zambrowicz, Brian
     10
             Sands, Arthur T.
     12 <120> TITLE OF INVENTION: Novel Human Ion Channel Protein and
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     16 <130> FILE REFERENCE: LEX-0160-USA
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C--> 18 <141> CURRENT FILING DATE: 2001-04-03
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101 Tyr His Ala Phe Val Phe Leu Leu Val The 327	
102 130 135 140 140 135 140 Ala Ser Ser Cys Leu	
102 130 135 103 Val Phe Ser Thr Ile Pro Glu His Thr Lys Leu Ala Ser Ser Cys Leu 103 Val Phe Ser Thr Ile Pro Glu His Thr Lys Leu Ala Ser Ser Cys Leu	
104 145 150 150 Phe Gly Leu Glu Phe Ile	
104 145 150 133 145 150 150 153 153 165 170 175 175 175 175 175 175 175 175 175 175	
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106 165 Type Arg Tyr Arg Gly Trp Gln	
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108				180 Arg	m1		7 mm	T 17 C	185	Dhe	Cvs	Val	Ile		Thr	Ile
	Gly	Arg	Leu	Arg	Pne	Ala	Ary	200	FIO	riic	010		205	•		
110			195	Ala	000	т10	λla	Val	Va 1	Ser	Ala	Lvs	Thr	Gln	Gly	Asn
	Val		iie	Ala	Ser	TIE	215	Vul	141	001		220				
112	_	210	. 1 -	Thr	Cor	λla	7.DI	Ara	Ser	Leu	Arq	Phe	Leu	Gln	Ile	Leu
						つつハ					7.33					
114	225		**- 1	Arg	Wat	230 7cn	Δrσ	Δrσ	Glv	Glv	Thr	Trp	Lys	Leu	Leu	Gly
					215					2.30						
116		1	**- 7	Tyr	243	Uic	Ser	T.vs	Glu	Leu	Ile	Thr	Ala	Trp	Tyr	Ile
				$\sim \sim \sim$					<i>)</i> n n					<i>L</i> , 0		
118		nh -	T a	260 Val	TOU	τlσ	Phe	Ser	Ser	Phe	Leu	Val	Tyr	Leu	Val	Glu
120		3	275	Asn	Tare	Glu	Phe	Ser	Thr	Tyr	Ala	Asp	Ala	Leu	${\tt Trp}$	Trp
							·) u 与					200				
122	-1-	290	T10	Thr	LOU	Thr	Thr	Tle	Glv	Tyr	Gly	Asp	Lys	Thr	Pro	Leu
						210					313					
124	305		T 011	Gly	λνα	T.eu	T.en	Ser	Ala	Gly	Phe	Ala	Leu	Leu	Gly	Ile
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126		nha	Dho	Ala	T.211	Pro	Δla	Glv	Ile	Leu	Gly	Ser	Gly	Phe	Ala	Leu
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128	} \	. 37.5.1	Cln	Glu	Gln	His	Ara	Gln	Lys	His	Phe	Glu	Lys	Arg	Arg	Asn
			255					4 h t i					202			
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							マソト					200				
132	2 2 ~ 1 x	3/C	, , Cor	val	Ser	· Tle	Ala	Thr	Trp	Lys	Pro	His	Leu	Lys	Ala	Leu
		_				200					ンフィ					
134	1 30.	ነ ተመከነ	~ Cvs	s Ser	Pro	Thr	Asn	Gln	Lys	Leu	Ser	Phe	Lys	Glu	Arg	Val
	_				4 A E					4 1 0						
13	3 7 Nr/	τ M≏t	- Ala	Ser	Pro	Arq	Gly	Gln	Ser	Ile	Lys	Ser	Arg	Gln	Ala	Ser
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13	o O Vai	1 G1v	v Ast	Arq	Arc	ser [Pro	Ser	Thr	Asp	ıle	Thr	Ala	ιGlu	Gly	Ser
	_		4 2 1	-				441					77.	,		
11	o 1 Pr	o Th	r Lvs	s Val	Glr	Lys	s Ser	Trp	Ser	Phe	e Asr	ı Asp	Arg	Thr	Arg	Phe
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14	a 3 Ar	a Pr	o Se:	r Let	ı Arç	J Lei	ı Lys	Sei	: Sei	Glr	ı Pro	Lys	Pro	o val	. TTE	480
		_				171	1				4:/、	,				
14	5 Al	a As	p Thi	r Ala	a Let	ı Gly	y Thi	Ası	Asp	va.	l Ty	r Ası	G G L I	т газ	4 O E	y Cys
_	_				401	<u> </u>				471	J					
14	7 Gl	n Cy	s As	p Val	L Se	r Va.	l Glu	ı Asp	Le	ı Th	r Pro	o Pro	о ге	1 LYS	, , 1111	val
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14	9 Il	e Ar	g Al	a Ile	e Ar	g Il	e Met	Ly:	s Phe	e Hi	s Va.	I AL	а цу	s Arg	у гу	5 Phe
	_		E 1	C				7 2 1	1				J 24	~		
15	1 Ly	s Gl	u Th	r Le	u Ar	g Pr	о Туз	r As	o Va	L Ly	s As	p va.	о Г ТТ	e GII	Y GTI	n Tyr
	_		^				531	`				74	0			
15	3 Se	r Al	a Gl	y Hi	s Le	u As	p Met	t Le	и Су	s Ar	g II	е га	s se	т. те	ודטיג	n Thr 560
		_				66	<i>(</i>)									s Lys 5
15	5 A *	·α Va	1 1	n G1	n T1	e Le	u Gl	y Ly	${ t s} { t G1}$	y Gl	n 11	e Tn	r se	T WR	יע די ק	S LIZS
) AI	9 14	T AS	P CT	56				-	57	^				57	5

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Input Set : A:\LEX-0160-USA SEQLIST.txt
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161 Ser Lys Leu Asp Cys Leu Leu Asp Ile Tyr Gln Gln Val Leu Arg Lys Glo Glo				E 0 E	Arg				6110					000			
103 Gly Ser Ala Ser Ala Leu Ala Leu Ala Ser Phe Gln Ile Pro Pro Pro 640 164 625 630 630 630 630 635 165 Glu Cys Glu Gln Thr Ser Asp Tyr Gln Ser Pro Val Asp Ser Lys Asp 166 645 645 665 655 167 Leu Ser Gly Ser Ala Gln Asn Ser Gly Cys Leu Ser Arg Ser Thr Ser 168 660 665 665 675 169 Ala Asn Tle Ser Arg Gly Leu Gln Phe Ile Leu Thr Pro Asn Glu Phe 170 675 675 675 675 171 Ser Ala Gln Thr Phe Tyr Ala Leu Ser Pro Thr Met His Ser Gln Ala 172 690 695 725 700 700 173 Thr Gln Val Pro Ile Ser Gln Ser Asp Gly Ser Ala Ala Ala Ala 174 705 725 725 730 735 177 Thr Thr Leu Gln Ile Pro Pro Pro Pro Pro Pro Leu Pro Tyr Ala Ala Ala Pro Tyr 178 740 775 740 745 745 745 745 179 Arg Pro Glu Thr Leu His Pro Asp Arg Ser Met Arg Glu Ser Ile Tro Tyr 181 Ser Asp Val Thr Thr Leu Leu Val Ala Ser Lys Glu Asn Val Gln Val 182 770 770 775 776 776 775 183 Ala Gln Ser Asn Leu Thr Lys Asp Arg Ser Met Arg Lys Ser Phe Asp 184 785 786 787 787 787 787 787 780 787 780 185 Met Gly Glu Thr Leu Leu Ser Glu Ser Glu Ser Thr Glu Glu 186 800 805 800 805 800 800 800 800 187 Leu Asn Ile Gln Leu Ser Gly Ser Glu Ser Arg Gly Ser Arg Glu Ser Arg Gly Ser Arg Gly	161		710	Leu				わしつ	Asp				020				
164 625 625 645 645 645 645 650 655 655 656 645 645 656 656 656 656 656 645 645 666 666 666 666 666 666 666 666 666 667	163		Ser	Ala	Ser	Ala	Leu	Ala	Leu	Ala	Ser	Phe	Gln	Ile	Pro	Pro	Phe 640
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176	171	705					710					/T2					, 20
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179			Thr	Leu		тте	PIO	PIO	FIO	745		,,,,		-1-	750		
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186 805 810 813 813 813 813 813 813 813 813 813 813 813 813 813 814 813 830 813 830 813 830 813 813 813 813 813 813 813 813 813 813 813 813 814 8	184	785		a 1	03	mh	790	T OU	Cor	. val	Cvs			Val	Pro	Lys	
187 Leu Gly Lys Ser Leu Ser Val Gln Asn Leu Ile Arg Ser Thr Glu Glu 188 820 825 830 189 Leu Asn Ile Gln Leu Ser Gly Ser Glu Ser Ser Gly Ser Arg Gly Ser 830 830 190 835 840 845 845 191 Gln Asp Phe Tyr Pro Lys Trp Arg Glu Ser Lys Leu Phe Ile Thr Asp 845 192 850 855 860 860 193 Glu Glu Val Gly Pro Glu Glu Thr Glu Thr Asp Thr Phe Asp Ala Ala 860 880 195 Pro Gln Pro Ala Arg Glu Ala Ala Phe Ala Ser Asp Ser Leu Arg Thr 880 195 Pro Gly Arg Ser Arg Ser Ser Gln Ser Ile Cys Lys Ala Gly Glu Ser Thr 895 197 Gly Arg Ser Arg Ser Leu Pro His Val Lys Leu Lys 900 905 199 Asp Ala Leu Ser Leu Pro His Val Lys Leu Lys 920 200 915 920 202 2210> SEQ ID NO: 3 203 2211> LENGTH: 3111 204 2212> TYPE: DNA 205 2213> ORGANISM: homo sapiens			. GIY	GIŸ	GIU	205	Leu	теп	Ser	Val	810					815	_
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189 Leu Asn Ile Gln Leu Ser Gly Ser Glu Ser Ser Gly Ser Arg Gly Ser 190 835 845 840 845 845 845 845 845 845 855 860 855 860 855 860 860 860 860 860 860 860 860 860 860	100	1			820					825	1				0.50		
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192	100			025					840)				043			
192 850 193 Glu Glu Val Gly Pro Glu Glu Thr Glu Thr Asp Thr Phe Asp Ala Ala 194 865 870 875 880 195 Pro Gln Pro Ala Arg Glu Ala Ala Phe Ala Ser Asp Ser Leu Arg Thr 196 885 890 895 197 Gly Arg Ser Arg Ser Ser Gln Ser Ile Cys Lys Ala Gly Glu Ser Thr 198 900 905 910 199 Asp Ala Leu Ser Leu Pro His Val Lys Leu Lys 200 915 920 202 <210> SEQ ID NO: 3 203 <211> LENGTH: 3111 204 <212> TYPE: DNA 205 <213> ORGANISM: homo sapiens					Tyr	Pro	Lys	Trp	Arg	GIU	ser	. гуз	860	PILE	. 110	. 1111	11.54
194 865 870 875 195 Pro Gln Pro Ala Arg Glu Ala Ala Phe Ala Ser Asp Ser Leu Arg Thr 196 885 890 895 197 Gly Arg Ser Arg Ser Ser Gln Ser Ile Cys Lys Ala Gly Glu Ser Thr 198 900 905 910 199 Asp Ala Leu Ser Leu Pro His Val Lys Leu Lys 200 915 920 202 <210> SEQ ID NO: 3 203 <211> LENGTH: 3111 204 <212> TYPE: DNA 205 <213> ORGANISM: homo sapiens	192	2	850	17- 1	C111	Dro	. clu	00. 11:	ነ i Thr	· Glu	Thr	Asr			Asp	Ala	Ala
195 Pro Gln Pro Ala Arg Glu Ala Ala Phe Ala Ser Asp Ser Leu Arg Thr 196 885 890 895 197 Gly Arg Ser Arg Ser Ser Gln Ser Ile Cys Lys Ala Gly Glu Ser Thr 198 900 905 910 199 Asp Ala Leu Ser Leu Pro His Val Lys Leu Lys 200 915 920 202 <210> SEQ ID NO: 3 203 <211> LENGTH: 3111 204 <212> TYPE: DNA 205 <213> ORGANISM: homo sapiens	10/	06	:				870	ì				0/2)				000
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200 915 920 202 <210> SEQ ID NO: 3 203 <211> LENGTH: 3111 204 <212> TYPE: DNA 205 <213> ORGANISM: homo sapiens	198	3			900)				905)				910	,	
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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/825,147

DATE: 09/10/2001 TIME: 11:21:17

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Output Set: N:\CRF3\09102001\I825147.raw

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VERIFICATION SUMMARY

PATENT APPLICATION: US/09/825,147

DATE: 09/10/2001 TIME: 11:21:18

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